

Remarks

By the above, applicant has rewritten the allowable claims so as to overcome the rejections and objections of the office action.

Conclusion

For all of the above reasons, the applicant submits the Claims in proper form and the Claims are now defined patentable over the prior art. Therefore, the application and all claims are now in condition for allowance.

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CLAIMS AS CURRENTLT PRESENTED:

1. Cancelled.
2. Cancelled.
3. Cancelled.
4. Cancelled.
5. Cancelled.
6. Cancelled.
7. Cancelled.
8. Cancelled.
9. A digital controller device for interfacing a user of adjustable power unit and an adjustable power module comprising:
 - at least one analog to digital converter for converting analog input signal provided by the user to digital input;
 - a micro-controller adapted to receive said input digital information and operate at least one digital to analog unit in response to said digital input information;
 - at least one digital to analog converter unit adapted to produce analog input signal for controlling the adjustable module;

wherein the relation between analog input signal and analog user input signal is controlled by micro-controller to essentially follow the linear equation: analog input signal equals A multiplies by the subtraction of B from analog user input signal.

10. The device according to claim 9, wherein said micro-controller further comprising at least one digital input for receiving at least one user digital command wherein said user digital command changes the values of at least one of the parameters A, B, or both.
11. The device according to claim 10, wherein calibrating the response of adjustable module to analog user input signal is performed by changing the values of at least one of the parameters A or B.
12. Cancelled.
13. The device according to claim 11, wherein the relation between user output signal and analog monitoring output signal is controlled by micro-controller to essentially follow the linear equation: user output signal equals C times subtraction of D from analog monitoring output signal.
14. The device according to claim 13, wherein said micro-controller further comprising at least one digital input for receiving at least one

user digital command wherein said user digital command changes the values of at least one of the parameters C, D, or both.

15. Cancelled.

16. Cancelled.

17. A method for controlling adjustable module comprising:

receiving analog input signal from a user;

converting said analog input signal to digital input information;

processing digital input information using a micro-controller;

producing at least one analog input signal for controlling adjustable module by a digital to analog unit in response to the processed digital input information;

wherein processing digital input information is a linear transformation between said user input signal and said analog input signal according to the equation: analog input signal equals A multiplies by the subtraction of B from analog user input signal.

18. The method as claimed in Claim 17, wherein said A and B are determined by calibration process.

19. Cancelled.